

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1204jxv

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 JAN 27 Source of Registration (SR) information in REGISTRY updated
and searchable
NEWS 4 JAN 27 A new search aid, the Company Name Thesaurus, available in
CA/Caplus
NEWS 5 FEB 05 German (DE) application and patent publication number format
changes
NEWS 6 MAR 03 MEDLINE and LMedLINE reloaded
NEWS 7 MAR 03 MEDLINE file segment of TOXCENTER reloaded
NEWS 8 MAR 03 FRANCEPAT now available on STN
NEWS 9 MAR 29 Pharmaceutical Substances (PS) now available on STN
NEWS 10 MAR 29 WPIFV now available on STN
NEWS 11 MAR 29 New monthly current-awareness alert (SDI) frequency in RAPRA
NEWS 12 APR 26 PROMT: New display field available
NEWS 13 APR 26 IFIPAT/IFIUDB/IFICDB: New super search and display field
available
NEWS 14 APR 26 LITAlert now available on STN
NEWS 15 APR 27 NLDB: New search and display fields available
NEWS 16 May 10 PROUSDDR now available on STN
NEWS 17 May 19 PROUSDDR: One FREE connect hour, per account, in both May
and June 2004
NEWS 18 May 12 EXTEND option available in structure searching
NEWS 19 May 12 Polymer links for the POLYLINK command completed in REGISTRY
NEWS 20 May 17 FRFULL now available on STN
NEWS 21 May 27 STN User Update to be held June 7 and June 8 at the SLA 2004
Conference
NEWS 22 May 27 New UPM (Update Code Maximum) field for more efficient patent
SDIs in Caplus
NEWS 23 May 27 Caplus super roles and document types searchable in REGISTRY
NEWS 24 May 27 Explore APOLLIT with free connect time in June 2004

NEWS EXPRESS MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 26 APRIL 2004
NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
specific topic.

All use of STN is subject to the provisions of the STN Customer
agreement. Please note that this agreement limits use to scientific
research. Use for software development or design or implementation
of commercial gateways or other similar uses is prohibited and may

result in loss of user privileges and other penalties.

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 09:42:47 ON 06 JUN 2004

=> file stnguide

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.42	0.42

FILE 'STNGUIDE' ENTERED AT 09:43:53 ON 06 JUN 2004

USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT
COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY, JAPAN SCIENCE
AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Jun 4, 2004 (20040604/UP).

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.42	0.84

FILE 'REGISTRY' ENTERED AT 09:48:20 ON 06 JUN 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2004 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 4 JUN 2004 HIGHEST RN 689739-78-4
DICTIONARY FILE UPDATES: 4 JUN 2004 HIGHEST RN 689739-78-4

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

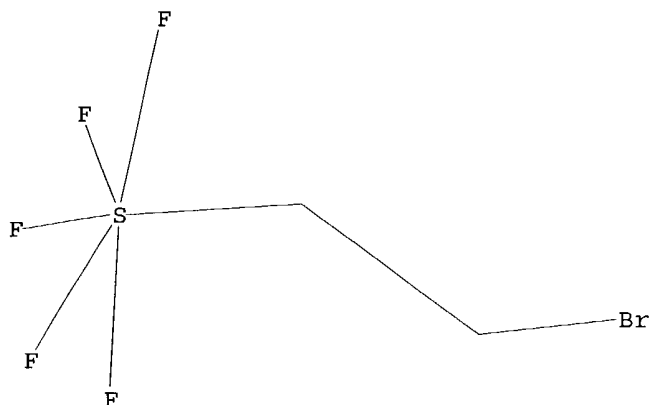
Uploading C:\Program Files\Stnexp\Queries\10713230.str

L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 09:48:32 FILE 'REGISTRY'
 SAMPLE SCREEN SEARCH COMPLETED - 4 TO ITERATE

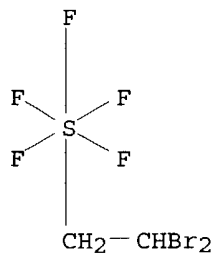
100.0% PROCESSED 4 ITERATIONS 2 ANSWERS
 SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
 PROJECTED ITERATIONS: 4 TO 200
 PROJECTED ANSWERS: 2 TO 124

L2 2 SEA SSS SAM L1

=> d scan

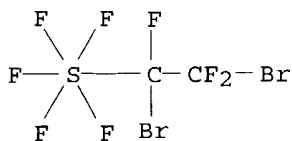
L2 2 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Sulfur, (2,2-dibromoethyl)pentafluoro-, (OC-6-21)- (9CI)
 MF C2 H3 Br2 F5 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L2 2 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Sulfur, (1,2-dibromo-1,2,2-trifluoroethyl)pentafluoro-, (OC-6-21)- (9CI)
 MF C2 Br2 F8 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

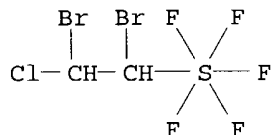
=> s l1 full
 FULL SEARCH INITIATED 09:49:03 FILE 'REGISTRY'
 FULL SCREEN SEARCH COMPLETED - 120 TO ITERATE

100.0% PROCESSED 120 ITERATIONS 48 ANSWERS
 SEARCH TIME: 00.00.01

L3 48 SEA SSS FUL L1

=> d scan

L3 48 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Sulfur, (1,2-dibromo-2-chloroethyl)pentafluoro- (7CI, 8CI)
 MF C2 H2 Br2 Cl F5 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s l3 and 5/x
 151713 5/X
 L4 0 L3 AND 5/X

=> file caplus		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	160.27	161.11

FILE 'CAPLUS' ENTERED AT 09:49:26 ON 06 JUN 2004
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
 COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications.

The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 6 Jun 2004 VOL 140 ISS 24
FILE LAST UPDATED: 4 Jun 2004 (20040604/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3/prep
25 L3
3155998 PREP/RL
L5 17 L3/PREP
(L3 (L) PREP/RL)

=> d ibib abs 10-17

L5 ANSWER 10 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1983:575181 CAPLUS
DOCUMENT NUMBER: 99:175181
TITLE: Sulfuranonium ions, RSF4+, preparation, detection, and stability
AUTHOR(S): Wessel, Juergen; Kleemann, Gert; Seppelt, Konrad
CORPORATE SOURCE: Inst. Anorg. Anal. Chem., Freie Univ. Berlin, Berlin, D-1000, Fed. Rep. Ger.
SOURCE: Chemische Berichte (1983), 116(7), 2399-407
CODEN: CHBEAM; ISSN: 0009-2940
DOCUMENT TYPE: Journal
LANGUAGE: German
AB RSF4+ (R = Me, Et, vinyl, MeCH:CH, H2C:CClCH2, HC.tplbond.C) were generated from RSF5 by F- extraction with SF5. None of the ions is stable at room temperature; they were identified by NMR. Formation and decomposition are strongly influenced by R.

L5 ANSWER 11 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1981:65034 CAPLUS
DOCUMENT NUMBER: 94:65034
TITLE: The addition of pentafluorosulfur bromide to fluoroolefins. II
AUTHOR(S): Mir, Q. C.; Debuhr, R.; Haug, C.; White, H. F.; Gard, G. L.
CORPORATE SOURCE: Dep. Chem., Portland State Univ., Portland, OR, 97207, USA
SOURCE: Journal of Fluorine Chemistry (1980), 16(4), 373-83
CODEN: JFLCAR; ISSN: 0022-1139
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The preparation, properties, and structure of new SF5Br-fluoroolefin adducts are reported. Thus, addition of SF5Br with CH2:CFCl gave SF5CH2CFClBr. Steric factors are important for these addns.

L5 ANSWER 12 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1978:61768 CAPLUS
DOCUMENT NUMBER: 88:61768
TITLE: Reaction of pentafluorosulfur bromide with cis- and trans-1,2-difluoroethylene
AUTHOR(S): Berry, A. D.; Fox, W. B.
CORPORATE SOURCE: Chem. Div., Nav. Res. Lab., Washington, DC, USA
SOURCE: Journal of Organic Chemistry (1978), 43(2), 365-7
CODEN: JOCEAH; ISSN: 0022-3263

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The reaction of SF5Br with cis- or trans-1,2-difluoroethylene gives the same mixture of erythro- and threo-SF5CHFCHFBr which indicates that the reactions occur via the same radical intermediate in both systems. Dehydrobromination of the addition products yields a mixture of cis- and trans-SF5CF:CFH.

L5 ANSWER 13 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1976:121024 CAPLUS

DOCUMENT NUMBER: 84:121024

TITLE: Synthesis of a bis(pentafluorosulfur) ethane

AUTHOR(S): Berry, A. D.; Fox, W. B.

CORPORATE SOURCE: Chem. Div., Nav. Res. Lab., Washington, DC, USA

SOURCE: Journal of Fluorine Chemistry (1976), 7(4), 449-52
CODEN: JFLCAR; ISSN: 0022-1139

DOCUMENT TYPE: Journal

LANGUAGE: English

AB F5SCHBrCH2SF5 (I) was prepared in 91% yield by reaction of F5SBr with F5SCH:CH2 at 70° for 8 hr. Attempted dehydrobromination of I gave F5SCHBr:CH2. The reactions of F5SBr with F5SCF:CF2, F5SCH:CF2, F5SCF:CFH, F5SCH:CHF and F5SCH:CHBr were attempted at 120-80° and for 18 hr-7 days; there was no reaction at shorter time and lower temperature and at maximum time and temperature 90-5% of reactants remained unchanged.

L5 ANSWER 14 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1975:564284 CAPLUS

DOCUMENT NUMBER: 83:164284

TITLE: Reactions of pentafluorosulfur halides with silanes and vinylsilanes

AUTHOR(S): Berry, A. D.; Fox, W. B.

CORPORATE SOURCE: Chem. Div., Nav. Res. Lab., Washington, DC, USA

SOURCE: Journal of Fluorine Chemistry (1975), 6(2), 175-80
CODEN: JFLCAR; ISSN: 0022-1139

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Addition of SF5X to R3SiCH:CH2 gave R3SiCHXCH2SF5 (R, X given: Me, Cl; Me, Br; Cl, Br).

L5 ANSWER 15 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1974:535340 CAPLUS

DOCUMENT NUMBER: 81:135340

TITLE: Perfluoroalkyl derivatives of sulfur. XVII. Reaction of perfluorovinylsulfur pentafluoride and a reexamination of the thermal reaction between perfluoropropene and buta-1,3-diene

AUTHOR(S): Banks, Ronald E.; Barlow, Michael G.; Haszeldine, Robert N.; Morton, William D.

CORPORATE SOURCE: Chem. Dep., Univ. Manchester Inst. Sci. Technol., Manchester, UK

SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1974), (11), 1266-71
CODEN: JCPRB4; ISSN: 0300-922X

DOCUMENT TYPE: Journal

LANGUAGE: English

GI For diagram(s), see printed CA Issue.

AB Addnl. data considered in abstracting and indexing are available from a source cited in the original document. The reactions of SF5CF:CF2 with MeOH-MeONa, Br, Cl, HBr, CF3I, BrCl, and CH2:CF2 were studied. Cycloaddn. of CH2:CHCH:CH2 with SF5CF:CF2 gave 70% of a 1:1 mixture of cyclobutanes I and II and a trace of cyclohexene III. A similar reaction of CF3CF:CF2 with CH2:CHCH:CH2 gave a 9:11.5:1 mixture of IV, V, and VI. The adducts of

I-VI were identified from ¹H and ¹⁹F NMR.

L5 ANSWER 16 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1969:105855 CAPLUS
DOCUMENT NUMBER: 70:105855
TITLE: Reaction of sulfur bromide pentafluoride with fluoro
olefins
AUTHOR(S): Steward, J.; Kegley, L.; White, H. F.; Gard, G. L.
CORPORATE SOURCE: Portland State Coll., Portland, OR, USA
SOURCE: Journal of Organic Chemistry (1969), 34(3), 760-2
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English
AB 2-Bromo-2-fluoroethylsulfur pentafluoride and other SF₅CHXCF₂Br (I)
compds. are prepared from fluoroethylenes and SF₅Br.
Chlorotrifluoroethylene gives SF₅C₂F₃ClBr. I (X = F) is treated with KOH
to give SF₅CF:CF₂. N.M.R. and ir data are given.

L5 ANSWER 17 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1967:55005 CAPLUS
DOCUMENT NUMBER: 66:55005
TITLE: Preparation of ethynylsulfur pentafluoride
INVENTOR(S): Coffman, Donald D.
PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co.
SOURCE: U.S., 2 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

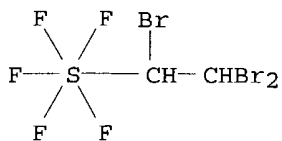
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3284496		19661108	US	19620516

AB CHCl:CHSF₅ (Case, et al., CA 55, 24533h) (85 g.) and 85 ml. Br were
irradiated 5 hrs. at 25-33° with a 275-w. sunlamp and the mixture
fractionated to give 77 g. of CHBrClCHBrSF₅ (I), b₁₃ 60°. I (77
g.) and 35 g. K₂CO₃ in 100 ml. Me₂CO was stirred 7.0-7.5 hrs., the mixture
filtered, and the filtrate distilled to give 43 g. of ClCH:CB₂BrSF₅ (II) which
was separated by gas chromatog. into cis and trans isomers. trans-II (2.06
g.) in 1 ml. (MeOCH₂CH₂)₂O (III) was added with stirring to 1.3 g. Zn dust
in 5 ml. III during 9 min., the mixture stirred 22 min. under N at
95-8°, and the off-gasses condensed to give 0.85 g. HC:CSF₅, b.
6°. The compound is useful as an aerosol propellant.

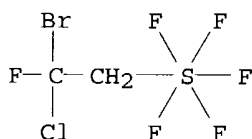
=> d ibib abs 10-17 hitstr

L5 ANSWER 10 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1983:575181 CAPLUS
DOCUMENT NUMBER: 99:175181
TITLE: Sulfuranonium ions, RSF₄⁺, preparation, detection, and
stability
AUTHOR(S): Wessel, Juergen; Kleemann, Gert; Seppelt, Konrad
CORPORATE SOURCE: Inst. Anorg. Anal. Chem., Freie Univ. Berlin, Berlin,
D-1000, Fed. Rep. Ger.
SOURCE: Chemische Berichte (1983), 116(7), 2399-407
CODEN: CHBEAM; ISSN: 0009-2940
DOCUMENT TYPE: Journal
LANGUAGE: German
AB RSF₄⁺ (R = Me, Et, vinyl, MeCH:CH, H₂C:CClCH₂, HC.tplbond.C) were
generated from RSF₅ by F- extraction with SF₅. None of the ions is stable at
room temperature; they were identified by NMR. Formation and decomposition are
strongly influenced by R.

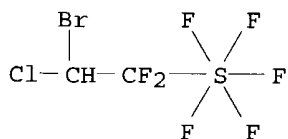
IT 87224-28-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); **PREP**
 (**Preparation**); RACT (Reactant or reagent)
 (preparation and dehydrobromination of)
 RN 87224-28-0 CAPLUS
 CN Sulfur, pentafluoro(1,2,2-tribromoethyl)-, (OC-6-21)- (9CI) (CA INDEX
 NAME)



L5 ANSWER 11 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1981:65034 CAPLUS
 DOCUMENT NUMBER: 94:65034
 TITLE: The addition of pentafluorosulfur bromide to
 fluoroolefins. II
 AUTHOR(S): Mir, Q. C.; Debuhr, R.; Haug, C.; White, H. F.; Gard,
 G. L.
 CORPORATE SOURCE: Dep. Chem., Portland State Univ., Portland, OR, 97207,
 USA
 SOURCE: Journal of Fluorine Chemistry (1980), 16(4), 373-83
 CODEN: JFLCAR; ISSN: 0022-1139
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The preparation, properties, and structure of new SF₅Br-fluoroolefin adducts
 are reported. Thus, addition of SF₅Br with CH₂:CFCl gave SF₅CH₂CFClBr.
 Steric factors are important for these addns.
 IT 76391-47-4P 76391-48-5P 76391-49-6P
 76391-50-9P 76391-51-0P 76391-52-1P
 76391-53-2P 76420-78-5P 76420-79-6P
 RL: SPN (Synthetic preparation); **PREP** (**Preparation**)
 (preparation of)
 RN 76391-47-4 CAPLUS
 CN Sulfur, (2-bromo-2-chloro-2-fluoroethyl)pentafluoro-, (OC-6-21)- (9CI)
 (CA INDEX NAME)

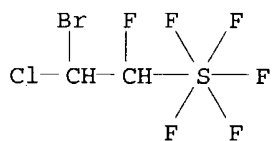


RN 76391-48-5 CAPLUS
 CN Sulfur, (2-bromo-2-chloro-1,1-difluoroethyl)pentafluoro-, (OC-6-21)- (9CI)
 (CA INDEX NAME)



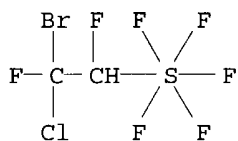
RN 76391-49-6 CAPLUS
 CN Sulfur, (2-bromo-2-chloro-1-fluoroethyl)pentafluoro-, [OC-6-21-(R*,R*)]-

(9CI) (CA INDEX NAME)



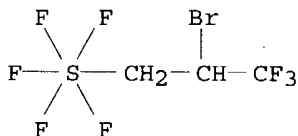
RN 76391-50-9 CAPLUS

CN Sulfur, (2-bromo-2-chloro-1,2-difluoroethyl)pentafluoro-,
[OC-6-21-(R*,S*)] - (9CI) (CA INDEX NAME)



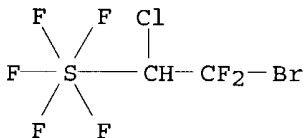
RN 76391-51-0 CAPLUS

CN Sulfur, (2-bromo-3,3,3-trifluoropropyl)pentafluoro-, (OC-6-21) - (9CI) (CA INDEX NAME)



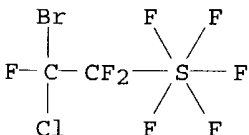
RN 76391-52-1 CAPLUS

CN Sulfur, (2-bromo-1-chloro-2,2-difluoroethyl)pentafluoro-, (OC-6-21) - (9CI)
(CA INDEX NAME)



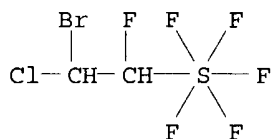
RN 76391-53-2 CAPLUS

CN Sulfur, (2-bromo-2-chloro-1,1,2-trifluoroethyl)pentafluoro-, (OC-6-21) -
(9CI) (CA INDEX NAME)

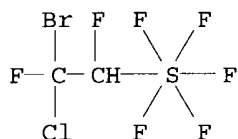


RN 76420-78-5 CAPLUS

CN Sulfur, (2-bromo-2-chloro-1-fluoroethyl)pentafluoro-, [OC-6-21-(R*,S*)] -
(9CI) (CA INDEX NAME)



RN 76420-79-6 CAPLUS
 CN Sulfur, (2-bromo-2-chloro-1,2-difluoroethyl)pentafluoro-,
 [OC-6-21-(R*,R*)] - (9CI) (CA INDEX NAME)



L5 ANSWER 12 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1978:61768 CAPLUS

DOCUMENT NUMBER: 88:61768

TITLE: Reaction of pentafluorosulfur bromide with cis- and trans-1,2-difluoroethylene

AUTHOR(S): Berry, A. D.; Fox, W. B.

CORPORATE SOURCE: Chem. Div., Nav. Res. Lab., Washington, DC, USA

SOURCE: Journal of Organic Chemistry (1978), 43(2), 365-7

CODEN: JOCEAH; ISSN: 0022-3263

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The reaction of SF₅Br with cis- or trans-1,2-difluoroethylene gives the same mixture of erythro- and threo-SF₅CHFCHFBr which indicates that the reactions occur via the same radical intermediate in both systems. Dehydrobromination of the addition products yields a mixture of cis- and trans-SF₅CF:CFH.

IT 64235-94-5P 64282-18-4P

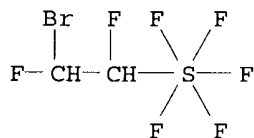
RL: RCT (Reactant); SPN (Synthetic preparation); **PREP**

(**Preparation**); RACT (Reactant or reagent)

(preparation and dehydrobromination of)

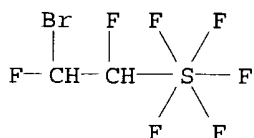
RN 64235-94-5 CAPLUS

CN Sulfur, (2-bromo-1,2-difluoroethyl)pentafluoro-, (OC-6-21)-(R*,R*) - (9CI)
 (CA INDEX NAME)

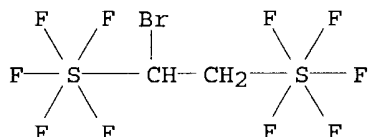


RN 64282-18-4 CAPLUS

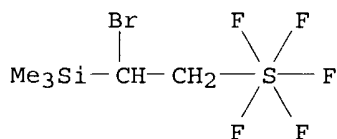
CN Sulfur, (2-bromo-1,2-difluoroethyl)pentafluoro-, [OC-6-21-(R*,S*)] - (9CI)
 (CA INDEX NAME)



L5 ANSWER 13 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1976:121024 CAPLUS
 DOCUMENT NUMBER: 84:121024
 TITLE: Synthesis of a bis(pentafluorosulfur) ethane
 AUTHOR(S): Berry, A. D.; Fox, W. B.
 CORPORATE SOURCE: Chem. Div., Nav. Res. Lab., Washington, DC, USA
 SOURCE: Journal of Fluorine Chemistry (1976), 7(4), 449-52
 CODEN: JFLCAR; ISSN: 0022-1139
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB F5SCHBrCH2SF5 (I) was prepared in 91% yield by reaction of F5SBr with F5SCH:CH2 at 70° for 8 hr. Attempted dehydrobromination of I gave F5SCHBr:CH2. The reactions of F5SBr with F5SCF:CF2, F5SCH:CF2, F5SCF:CFH, F5SCH:CHF and F5SCH:CHBr were attempted at 120-80° and for 18 hr-7 days; there was no reaction at shorter time and lower temperature and at maximum time and temperature 90-5% of reactants remained unchanged.
 IT **58636-80-9P**
 RL: SPN (Synthetic preparation); **PREP (Preparation)**
 (preparation of)
 RN 58636-80-9 CAPLUS
 CN Sulfur, [μ -(1-bromo-1,2-ethanediyl)]decafluorodi- (9CI) (CA INDEX NAME)

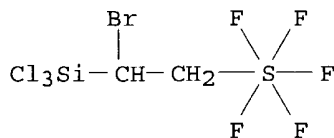


L5 ANSWER 14 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1975:564284 CAPLUS
 DOCUMENT NUMBER: 83:164284
 TITLE: Reactions of pentafluorosulfur halides with silanes and vinylsilanes
 AUTHOR(S): Berry, A. D.; Fox, W. B.
 CORPORATE SOURCE: Chem. Div., Nav. Res. Lab., Washington, DC, USA
 SOURCE: Journal of Fluorine Chemistry (1975), 6(2), 175-80
 CODEN: JFLCAR; ISSN: 0022-1139
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Addition of SF5X to R3SiCH:CH2 gave R3SiCHXCH2SF5 (R, X given: Me, Cl; Me, Br; Cl, Br).
 IT **56913-52-1P 56913-53-2P**
 RL: SPN (Synthetic preparation); **PREP (Preparation)**
 (preparation of)
 RN 56913-52-1 CAPLUS
 CN Sulfur, [2-bromo-2-(trimethylsilyl)ethyl]pentafluoro-, (OC-6-21)- (9CI)
 (CA INDEX NAME)



RN 56913-53-2 CAPLUS
 CN Sulfur, [2-bromo-2-(trichlorosilyl)ethyl]pentafluoro-, (OC-6-21)- (9CI)

(CA INDEX NAME)



L5 ANSWER 15 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1974:535340 CAPLUS

DOCUMENT NUMBER: 81:135340

TITLE: Perfluoroalkyl derivatives of sulfur. XVII. Reaction of perfluorovinylsulfur pentafluoride and a reexamination of the thermal reaction between perfluoropropene and buta-1,3-diene

AUTHOR(S): Banks, Ronald E.; Barlow, Michael G.; Haszeldine, Robert N.; Morton, William D.

CORPORATE SOURCE: Chem. Dep., Univ. Manchester Inst. Sci. Technol., Manchester, UK

SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1974), (11), 1266-71
CODEN: JCPRB4; ISSN: 0300-922X

DOCUMENT TYPE: Journal

LANGUAGE: English

GI For diagram(s), see printed CA Issue.

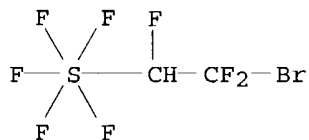
AB Addnl. data considered in abstracting and indexing are available from a source cited in the original document. The reactions of SF₅CF:CF₂ with MeOH-MeONa, Br, Cl, HBr, CF₃I, BrCl, and CH₂:CF₂ were studied. Cycloaddn. of CH₂:CHCH:CH₂ with SF₅CF:CF₂ gave 70% of a 1:1 mixture of cyclobutanes I and II and a trace of cyclohexene III. A similar reaction of CF₃CF:CF₂ with CH₂:CHCH:CH₂ gave a 9:11.5:1 mixture of IV, V, and VI. The adducts of I-VI were identified from ¹H and ¹⁹F NMR.

IT 18801-68-8P 22687-88-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

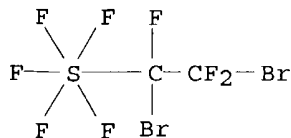
RN 18801-68-8 CAPLUS

CN Sulfur, (2-bromo-1,2,2-trifluoroethyl)pentafluoro-, (OC-6-21)- (9CI) (CA INDEX NAME)

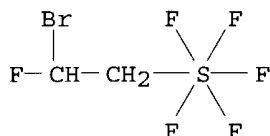


RN 22687-88-3 CAPLUS

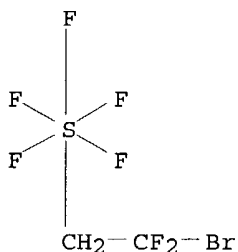
CN Sulfur, (1,2-dibromo-1,2,2-trifluoroethyl)pentafluoro-, (OC-6-21)- (9CI)
(CA INDEX NAME)



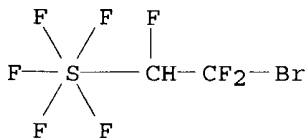
L5 ANSWER 16 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1969:105855 CAPLUS
 DOCUMENT NUMBER: 70:105855
 TITLE: Reaction of sulfur bromide pentafluoride with fluoro
 olefins
 AUTHOR(S): Steward, J.; Kegley, L.; White, H. F.; Gard, G. L.
 CORPORATE SOURCE: Portland State Coll., Portland, OR, USA
 SOURCE: Journal of Organic Chemistry (1969), 34(3), 760-2
 CODEN: JOCEAH; ISSN: 0022-3263
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB 2-Bromo-2-fluoroethylsulfur pentafluoride and other SF₅CHXCF₂Br (I)
 compds. are prepared from fluoroethylenes and SF₅Br.
 Chlorotrifluoroethylene gives SF₅C₂F₃ClBr. I (X = F) is treated with KOH
 to give SF₅CF:CF₂. N.M.R. and ir data are given.
 IT 18801-66-6P 18801-67-7P 18801-68-8P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 18801-66-6 CAPLUS
 CN Sulfur, (2-bromo-2-fluoroethyl)pentafluoro-, (OC-6-21)- (9CI) (CA INDEX
 NAME)



RN 18801-67-7 CAPLUS
 CN Sulfur, (2-bromo-2,2-difluoroethyl)pentafluoro-, (OC-6-21)- (9CI) (CA
 INDEX NAME)



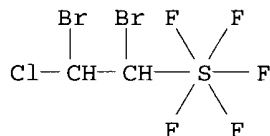
RN 18801-68-8 CAPLUS
 CN Sulfur, (2-bromo-1,2,2-trifluoroethyl)pentafluoro-, (OC-6-21)- (9CI) (CA
 INDEX NAME)



L5 ANSWER 17 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1967:55005 CAPLUS
 DOCUMENT NUMBER: 66:55005
 TITLE: Preparation of ethynylsulfur pentafluoride
 INVENTOR(S): Coffman, Donald D.

PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co.
 SOURCE: U.S., 2 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	US 3284496		19661108	US	19620516
AB	CHCl:CHSF5 (Case, et al., CA 55, 24533h) (85 g.) and 85 ml. Br were irradiated 5 hrs. at 25-33° with a 275-w. sunlamp and the mixture fractionated to give 77 g. of CHBrClCHBrSF5 (I), b13 60°. I (77 g.) and 35 g. K2CO3 in 100 ml. Me2CO was stirred 7.0-7.5 hrs., the mixture filtered, and the filtrate distilled to give 43 g. of ClCH:CHBrSF5 (II) which was separated by gas chromatog. into cis and trans isomers. trans-II (2.06 g.) in 1 ml. (MeOCH2CH2)2O (III) was added with stirring to 1.3 g. Zn dust in 5 ml. III during 9 min., the mixture stirred 22 min. under N at 95-8°, and the off-gasses condensed to give 0.85 g. HC:CSF5, b. 6°. The compound is useful as an aerosol propellant.				
IT	920-60-5P				
	RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)				
RN	920-60-5 CAPLUS				
CN	Sulfur, (1,2-dibromo-2-chloroethyl)pentafluoro- (7CI, 8CI) (CA INDEX NAME)				



=> d his

(FILE 'HOME' ENTERED AT 09:42:47 ON 06 JUN 2004)

FILE 'STNGUIDE' ENTERED AT 09:43:53 ON 06 JUN 2004

FILE 'REGISTRY' ENTERED AT 09:48:20 ON 06 JUN 2004

L1 STRUCTURE UPLOADED
 L2 2 S L1
 L3 48 S L1 FULL
 L4 0 S L3 AND 5/X

FILE 'CAPLUS' ENTERED AT 09:49:26 ON 06 JUN 2004

L5 17 S L3/PREP

=> s l3 and borane

25 L3
 14232 BORANE
 3762 BORANES
 15687 BORANE
 (BORANE OR BORANES)

L6 0 L3 AND BORANE

=> s l3 and free radic?

25 L3
 1146901 FREE

```

      566 FREES
1147376 FREE
      (FREE OR FREES)
346448 RADIC?
83546 FREE RADIC?
      (FREE(W)RADIC?)
L7      0 L3 AND FREE RADIC?

=> s l3
L8      25 L3

=> s l8 and borane
      14232 BORANE
      3762 BORANES
      15687 BORANE
      (BORANE OR BORANES)
L9      0 L8 AND BORANE

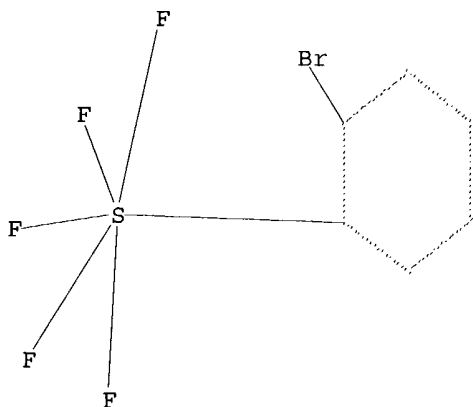
=> s l8 and free radi?
      1146901 FREE
      566 FREES
      1147376 FREE
      (FREE OR FREES)
      1743515 RADIC?
      84608 FREE RADIC?
      (FREE(W)RADIC?)
L10     0 L8 AND FREE RADIC?

=>
Uploading C:\Program Files\Stnexp\Queries\10713230.str

L11     STRUCTURE UPLOADED

=> d
L11 HAS NO ANSWERS
L11     STR

```



Structure attributes must be viewed using STN Express query preparation.

```

=> s l11
REGISTRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

```

SAMPLE SEARCH INITIATED 09:53:47 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 0 TO 0
PROJECTED ANSWERS: 0 TO 0

L12 0 SEA SSS SAM L11

L13 0 L12

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.44	236.13

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-11.09

FILE 'REGISTRY' ENTERED AT 09:53:53 ON 06 JUN 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2004 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 4 JUN 2004 HIGHEST RN 689739-78-4
DICTIONARY FILE UPDATES: 4 JUN 2004 HIGHEST RN 689739-78-4

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> s l11 full

FULL SEARCH INITIATED 09:53:56 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 7 TO ITERATE

100.0% PROCESSED 7 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

L14 0 SEA SSS FUL L11

=> file beilstein

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	155.84	391.97

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-11.09

FILE 'BEILSTEIN' ENTERED AT 09:55:19 ON 06 JUN 2004
 COPYRIGHT (c) 2004 Beilstein-Institut zur Foerderung der Chemischen Wissenschaften
 licensed to Beilstein GmbH and MDL Information Systems GmbH

FILE RELOADED ON OCTOBER 20, 2002
 FILE LAST UPDATED ON MARCH 30,2004

FILE COVERS 1771 TO 2003.
 *** FILE CONTAINS 8,932,479 SUBSTANCES ***

>>> PLEASE NOTE: Reaction data and substance data are stored in separate documents and can not be searched together in one query.
 Reaction data for BEILSTEIN compounds may be displayed immediately with the display codes PRE (preparations) and REA (reactions). A substance answer set retrieved after the search for a chemical name, a molecular formula or a structure search for example can be restricted to compounds with available reaction information by concatenation with PRE/FA, REA/FA or more general with RX/FA. The BEILSTEIN Registry Number (BRN) is the link between a BEILSTEIN compound and belonging reactions. For more detailed reaction searches BRNs can be selected from substance answer sets and searched in the next step as reaction partner BRNs - Reactant (RX.RBRN) or Product BRN (RX.PBRN). After a search for reaction details substance documents associated with reactants or products may be retrieved by searching RX.PBRNs or RX.RBRNs as BRNs. <<<

>>> FOR SEARCHING PREPARATIONS SEE HELP PRE <<<

 * PLEASE NOTE THAT THERE ARE NO FORMATS FREE OF COST. *
 * SET NOTICE FEATURE: THE COST ESTIMATES CALCULATED FOR SET NOTICE *
 * ARE BASED ON THE HIGHEST PRICE CATEGORY. THEREFORE; THESE *
 * ESTIMATES MAY NOT REFLECT THE ACTUAL COSTS. *
 * FOR PRICE INFORMATION SEE HELP COST *

=> d his

(FILE 'HOME' ENTERED AT 09:42:47 ON 06 JUN 2004)

FILE 'STNGUIDE' ENTERED AT 09:43:53 ON 06 JUN 2004

FILE 'REGISTRY' ENTERED AT 09:48:20 ON 06 JUN 2004

```
L1      STRUCTURE UPLOADED
L2      2 S L1
L3      48 S L1 FULL
L4      0 S L3 AND 5/X
```

FILE 'CAPLUS' ENTERED AT 09:49:26 ON 06 JUN 2004

```
L5      17 S L3/PREP
L6      0 S L3 AND BORANE
L7      0 S L3 AND FREE RADIC?
L8      25 S L3
L9      0 S L8 AND BORANE
L10     0 S L8 AND FREE RADI?
L11     STRUCTURE UPLOADED
```

S L11

L12 FILE 'REGISTRY' ENTERED AT 09:53:47 ON 06 JUN 2004
0 S L11

L13 FILE 'CAPLUS' ENTERED AT 09:53:47 ON 06 JUN 2004
0 S L12

L14 FILE 'REGISTRY' ENTERED AT 09:53:53 ON 06 JUN 2004
0 S L11 FULL

FILE 'BEILSTEIN' ENTERED AT 09:55:19 ON 06 JUN 2004

=> s l11 full
FULL SEARCH INITIATED 09:55:28 FILE 'BEILSTEIN'
FULL SCREEN SEARCH COMPLETED - 3 TO ITERATE

100.0% PROCESSED 3 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.04

L15 0 SEA SSS FUL L11

=> s l1 full
FULL SEARCH INITIATED 09:55:46 FILE 'BEILSTEIN'
FULL SCREEN SEARCH COMPLETED - 65 TO ITERATE

100.0% PROCESSED 65 ITERATIONS 41 ANSWERS
SEARCH TIME: 00.00.02

L16 41 SEA SSS FUL L1

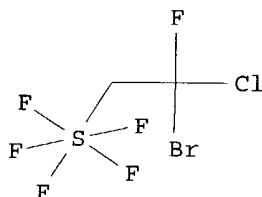
=> s l3
L17 12 L3

=> s l16 not l17
L18 29 L16 NOT L17

=> d ide 29

L18 ANSWER 29 OF 29 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	6188948
Molec. Formula (MF):	C2 H2 Br Cl F6 S
Molecular Weight (MW):	287.45
Lawson Number (LN):	2716
Compound Type (CTYPE):	acyclic
Constitution ID (CONSID):	5329279
Tautomer ID (TAUTID):	5802780
Beilstein Citation (BSO):	6-04
Entry Date (DED):	1993/10/20
Update Date (DUPD):	1993/10/20



Field Availability:

Code	Name	Occurrence
=====	=====	=====
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	1
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
BP	Boiling Point	1
IR	Infrared Spectrum	1
MS	Mass Spectrum	1
NMR	Nuclear Magnetic Resonance	4

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
=====	=====	=====
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

=> 0

0 IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s l18 and 5/x

34002 5/X

L19 0 L18 AND 5/X

=> s l18 and 7/x

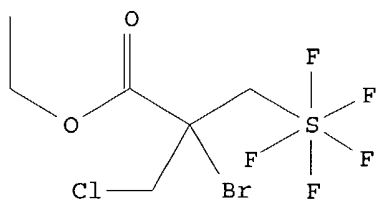
12567 7/X

L20 2 L18 AND 7/X

=> d ide

L20 ANSWER 1 OF 2 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	8554381
Chemical Name (CN):	Ethyl α -bromo- β -chloro- β' - pentafluorosulfanylisobutyrate
Molec. Formula (MF):	C6 H9 Br Cl F5 O2 S
Molecular Weight (MW):	355.54
Lawson Number (LN):	2807, 298
Compound Type (CTYPE):	acyclic
Constitution ID (CONSID):	7250266
Tautomer ID (TAUTID):	8045932
Entry Date (DED):	2000/10/24
Update Date (DUPD):	2000/10/24



Field Availability:

Code	Name	Occurrence
=====	=====	=====
BRN	Beilstein Records	1
CN	Chemical Name	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	2
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
ED	Entry Date	1
UPD	Update Date	1
IR	Infrared Spectrum	1
MS	Mass Spectrum	1
NMR	Nuclear Magnetic Resonance	5

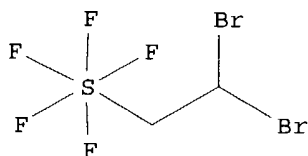
This substance also occurs in Reaction Documents:

Code	Name	Occurrence
=====	=====	=====
RX	Reaction Documents	2
RXREA	Substance is Reaction Reactant	1
RXPRO	Substance is Reaction Product	1

=> d ide 2

L20 ANSWER 2 OF 2 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 7472712
 Molec. Formula (MF): **C2 H3 Br2 F5 S**
 Molecular Weight (MW): 313.91
 Lawson Number (LN): 2715
 Compound Type (CTYPE): acyclic
 Constitution ID (CONSID): 6325337
 Tautomer ID (TAUTID): 7003276
 Beilstein Citation (BSO): 6-04
 Entry Date (DED): 1996/11/12
 Update Date (DUPD): 1996/11/12



Field Availability:

Code	Name	Occurrence
=====	=====	=====
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	1
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
BP	Boiling Point	1
IR	Infrared Spectrum	1
NMR	Nuclear Magnetic Resonance	4

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
=====	=====	=====
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

=> d rxpro

L20 ANSWER 1 OF 2 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Reaction:

RX
 Reaction ID (.ID): 8553985
 Reactant BRN (.RBRN): 1753937
 Reactant (.RCT): 2-chloromethyl-acrylic acid ethyl ester
 Product BRN (.PBRN): 8554381
 Product (.PRO): Ethyl α -bromo- β -chloro- β' -
 pentafluorosulfanylisobutyrate
 No. of React. Details (.NVAR): 1

Reaction Details:

RX
 Reaction RID (.RID): 8553985.1
 Reaction Classification (.CL): Preparation
 Yield (.YDT): 68 percent (BRN=8554381)
 Reagent (.RGT): SF5Br
 Time (.TIM): 3 week(s)
 Temperature (.T): 20 Cel
 Reaction Type (.TYP): Addition
 Reference(s):
 1. Winter, R.; Gard, G. L., J.Fluorine Chem., CODEN: JFLCAR, 102(1-2),
 <2000>, 79 - 88; BABS-6243742

=> d ibib abs hitstr 15 1-9

L5 ANSWER 1 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:580615 CAPLUS

DOCUMENT NUMBER: 140:128133

TITLE: Novel methodology for the synthesis of o-, m-, and p-(SF5-perfluoroethyl)benzene derivatives

AUTHOR(S): Winter, R. W.; Dodean, R.; Smith, J. A.; Anilkumar, R.; Burton, D. J.; Gard, G. L.

CORPORATE SOURCE: Department of Chemistry, Portland State University, Portland, OR, 97207, USA

SOURCE: Journal of Fluorine Chemistry (2003), 122(2), 251-253
CODEN: JFLCAR; ISSN: 0022-1139

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The reaction of o-, m-, and p-F2C:CFC6H4X (X = halo, CF3, etc.) with SF5Br produces intermediate adducts, F5SCF2CFBrC6H4X, which, on treatment with AgBF4, afford the first useful, high yield preparation of o-, m-, and p-F5SCF2CF2C6H4X.

IT 648412-80-0P 648412-81-1P 648412-82-2P

648412-83-3P 648412-84-4P 648412-85-5P

648412-86-6P 648412-87-7P 648412-88-8P

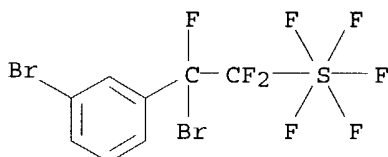
RL: RCT (Reactant); SPN (Synthetic preparation); **PREP**

(**Preparation**); RACT (Reactant or reagent)

((aryltetrafluoroethyl)pentafluorosulfur compds. from fluorinated styrenes and bromopentafluorosulfur)

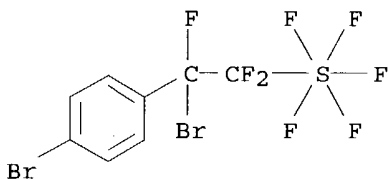
RN 648412-80-0 CAPLUS

CN Sulfur, [2-bromo-2-(3-bromophenyl)-1,1,2-trifluoroethyl]pentafluoro-,
(OC-6-21)- (9CI) (CA INDEX NAME)



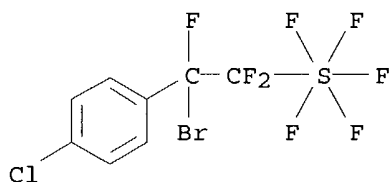
RN 648412-81-1 CAPLUS

CN Sulfur, [2-bromo-2-(4-bromophenyl)-1,1,2-trifluoroethyl]pentafluoro-,
(OC-6-21)- (9CI) (CA INDEX NAME)



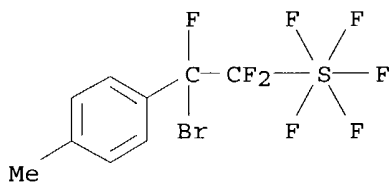
RN 648412-82-2 CAPLUS

CN Sulfur, [2-bromo-2-(4-chlorophenyl)-1,1,2-trifluoroethyl]pentafluoro-,
(OC-6-21)- (9CI) (CA INDEX NAME)



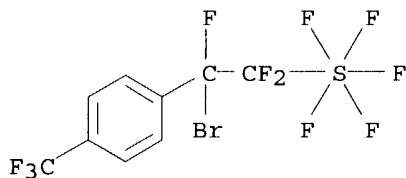
RN 648412-83-3 CAPLUS

CN Sulfur, [2-bromo-1,1,2-trifluoro-2-(4-methylphenyl)ethyl]pentafluoro-,
(OC-6-21) - (9CI) (CA INDEX NAME)



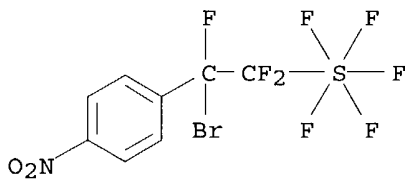
RN 648412-84-4 CAPLUS

CN Sulfur, [2-bromo-1,1,2-trifluoro-2-[4-(trifluoromethyl)phenyl]ethyl]pentafluoro-,
(OC-6-21) - (9CI) (CA INDEX NAME)



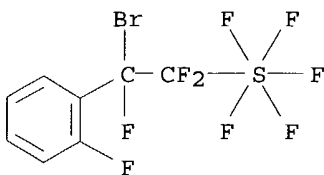
RN 648412-85-5 CAPLUS

CN Sulfur, [2-bromo-1,1,2-trifluoro-2-(4-nitrophenyl)ethyl]pentafluoro-,
(OC-6-21) - (9CI) (CA INDEX NAME)

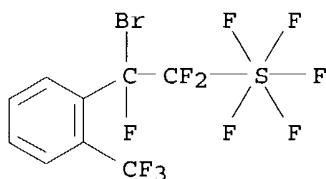


RN 648412-86-6 CAPLUS

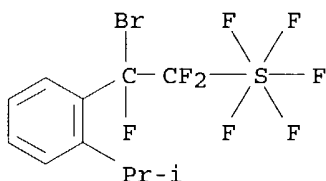
CN Sulfur, [2-bromo-1,1,2-trifluoro-2-(2-fluorophenyl)ethyl]pentafluoro-,
(OC-6-21) - (9CI) (CA INDEX NAME)



RN 648412-87-7 CAPLUS
 CN Sulfur, [2-bromo-1,1,2-trifluoro-2-[2-(trifluoromethyl)phenyl]ethyl]pentafluoro-, (OC-6-21)- (9CI) (CA INDEX NAME)



RN 648412-88-8 CAPLUS
 CN Sulfur, [2-bromo-1,1,2-trifluoro-2-[2-(1-methylethyl)phenyl]ethyl]pentafluoro-, (OC-6-21)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:879078 CAPLUS

DOCUMENT NUMBER: 138:304351

TITLE: An improved and facile preparation of ω -SF5-(perfluoroethyl)benzene (SF5CF2CF2C6H5)

AUTHOR(S): Winter, R. W.; Gard, G. L.

CORPORATE SOURCE: Department of Chemistry, Portland State University, Portland, OR, 97207-0751, USA

SOURCE: Journal of Fluorine Chemistry (2002), 118(1-2), 157-159

CODEN: JFLCAR; ISSN: 0022-1139

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 138:304351

AB A convenient and high-yield process for preparing SF5CF2CF2C6H5 has been developed. This material can be used to prepare a number of SF5-aromatic derivs.

with interesting properties. A high-yield preparation of SF5CF2CF2C6H5 has been achieved via a two-step process: α,β,β -trifluorostyrene reacts with SF5Br to give the intermediate product SF5CF2CFBrC6H5, which, when treated with AgBF4 in methylene chloride, produces SF5CF2CF2C6H5 in high yield.

IT 508196-18-7P

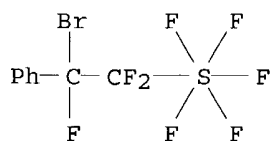
RL: RCT (Reactant); SPN (Synthetic preparation); **PREP**

(**Preparation**); RACT (Reactant or reagent)

(preparation of (perfluoroethyl)phenyl pentasulfide)

RN 508196-18-7 CAPLUS

CN Sulfur, (2-bromo-1,1,2-trifluoro-2-phenylethyl)pentafluoro-, (OC-6-21)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2000:200674 CAPLUS

DOCUMENT NUMBER: 133:17214

TITLE: The addition of SF5Br to acrylic esters: pathways to γ -SF5-propane derivatives

AUTHOR(S): Winter, R.; Gard, G. L.

CORPORATE SOURCE: Department of Chemistry, Portland State University, Portland, OR, USA

SOURCE: Journal of Fluorine Chemistry (2000), 102(1-2), 79-87
CODEN: JFLCAR; ISSN: 0022-1139

PUBLISHER: Elsevier Science S.A.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 133:17214

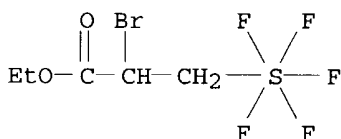
AB Reaction of SF5Br with various acrylic esters, CH2:CHCOOR, where R = C2H5/C(CH3)3 and CH2:C(CH3)COOCH3, CH2:C(CH2Cl)COOC2H5, CH2:C(n-C7H15)COOC2H5 resulted in 1:1 adducts with the SF5-group attached to the CH2 portion of the acrylic ester. These adducts were converted to halogen-free saturated esters, an alc. [SF5(CH2)3OH], an acid [SF5(CH2)2COOH], and a bromide [SF5(CH2)3Br]. Therefore, a method for chain-elongation of SF5-aliphatic hydrocarbons has been devised. With Et acrylate, a 2:1 adduct was also isolated. The reaction of SF5Cl with (C2H5O)2C:CHCOOC2H5 gave chloromalonate.

IT 155990-87-7P 273211-72-6P 273211-74-8P
273211-75-9P

RL: RCT (Reactant); SPN (Synthetic preparation); **PREP**
(**Preparation**); RACT (Reactant or reagent)
(addition of SF5Br to acrylic esters)

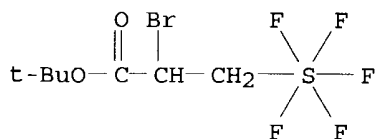
RN 155990-87-7 CAPLUS

CN Sulfur, (2-bromo-3-ethoxy-3-oxopropyl)pentafluoro-, (OC-6-21) - (9CI) (CA INDEX NAME)



RN 273211-72-6 CAPLUS

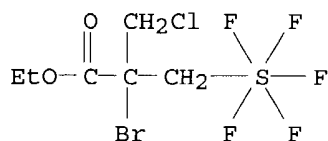
CN Sulfur, [2-bromo-3-(1,1-dimethylethoxy)-3-oxopropyl]pentafluoro-, (OC-6-21) - (9CI) (CA INDEX NAME)



RN 273211-74-8 CAPLUS

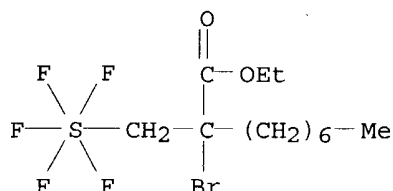
CN Sulfur, [2-bromo-2-(chloromethyl)-3-ethoxy-3-oxopropyl]pentafluoro-,

(OC-6-21) - (9CI) (CA INDEX NAME)



RN 273211-75-9 CAPLUS

CN Sulfur, [2-bromo-2-(ethoxycarbonyl)nonyl]pentafluoro-, (OC-6-21) - (9CI)
(CA INDEX NAME)

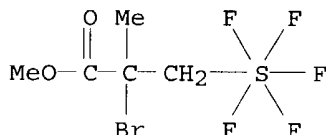


IT 273211-73-7P

RL: SPN (Synthetic preparation); **PREP (Preparation)**
(addition of SF5Br to acrylic esters)

RN 273211-73-7 CAPLUS

CN Sulfur, (2-bromo-3-methoxy-2-methyl-3-oxopropyl)pentafluoro-, (OC-6-21) - (9CI) (CA INDEX NAME)



REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1998:495822 CAPLUS

DOCUMENT NUMBER: 129:216341

TITLE: New fluoroalkenes and alcohol with
pentafluoro-λ6-sulfanyl (SF5) terminal
groupings

AUTHOR(S): Nixon, Paul G.; Renn, Julia; Terjeson, Robin J.; Choi,
Yoon S.; Winter, Rolf; Gard, Gary L.

CORPORATE SOURCE: Dep. Chem., Portland State Univ., Portland, OR, 97207,
USA

SOURCE: Journal of Fluorine Chemistry (1998), 91(1), 13-18
CODEN: JFLCAR; ISSN: 0022-1139

PUBLISHER: Elsevier Science S.A.

DOCUMENT TYPE: Journal

LANGUAGE: English

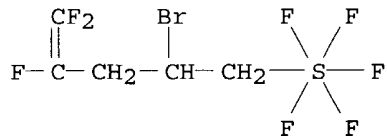
AB The synthesis of new compds. that contain both a terminal
pentafluoro-λ6-sulfanyl (SF5) group and an alkene or alc.
functional group is reported. Five new SF5 containing alkenes and one new SF5
containing alc. were prepared: SF5CH2CHBrCH2CF:CF2, SF5CF2CF2CH2CHICH2CF:CF2,
SF5CF2CF2CH2CH2CH2CF:CF2, SF5CF2CF2CH:CH2, SF5(CF2CF2)2CH:CH2, and
SF5CF2CF2CH2CH2OH.

IT 212612-97-0P

RL: SPN (Synthetic preparation); **PREP (Preparation)**
(preparation of fluoroalkenes and alc. with pentafluoro- λ 6-sulfanyl
(SF5) terminal groupings)

RN 212612-97-0 CAPLUS

CN Sulfur, (2-bromo-4,5,5-trifluoro-4-pentenyl)pentafluoro-, (OC-6-21)- (9CI)
(CA INDEX NAME)



REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 5 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1996:106835 CAPLUS

DOCUMENT NUMBER: 124:260352

TITLE: New pentafluorothio (SF5)-containing alkyl dibromides

AUTHOR(S): Terjeson, Robin J.; Willenbring, Robert; Gard, Gary L.

CORPORATE SOURCE: Department of Chemistry, Portland State University,
Portland, OR, 97207, USA

SOURCE: Journal of Fluorine Chemistry (1996), 76(1), 63-5

CODEN: JFLCAR; ISSN: 0022-1139

PUBLISHER: Elsevier

DOCUMENT TYPE: Journal

LANGUAGE: English

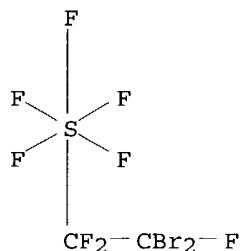
AB Preparation of two new SF5-containing compds. and one telomer was achieved by
reaction of the olefins CH2:CHBr and CF2:CFBr with SF5Br to form
SF5CH2CHBr2 and SF5CF2CFBr2. In the reaction of SF5Br with CF2:CFBr, a
waxy solid formed with an average formula of SF5(CF2CFBr)10Br.

IT 175436-63-2P 175436-64-3P 175436-65-4P

RL: SPN (Synthetic preparation); **PREP (Preparation)**
(preparation of SF5-containing compds.)

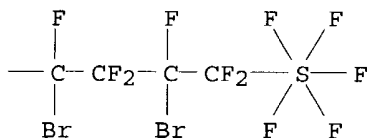
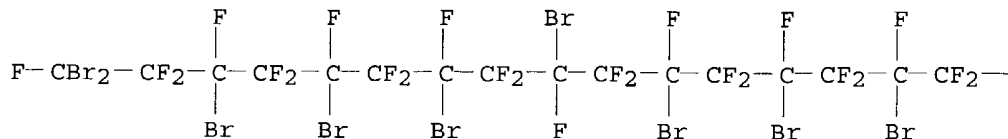
RN 175436-63-2 CAPLUS

CN Sulfur, (2,2-dibromo-1,1,2-trifluoroethyl)pentafluoro-, (OC-6-21)- (9CI)
(CA INDEX NAME)



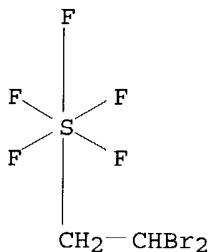
RN 175436-64-3 CAPLUS

CN Sulfur, pentafluoro(2,4,6,8,10,12,14,16,18,20,20-undecabromo-
1,1,2,3,3,4,5,5,6,7,7,8,9,9,10,11,11,12,13,13,14,15,15,16,17,17,18,19,19,2
0-triacontafluoroeicosyl)-, (OC-6-21)- (9CI) (CA INDEX NAME)



RN 175436-65-4 CAPLUS

CN Sulfur, (2,2-dibromoethyl)pentafluoro-, (OC-6-21)- (9CI) (CA INDEX NAME)



L5 ANSWER 6 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1994:434777 CAPLUS

DOCUMENT NUMBER: 121:34777

TITLE: New pentafluorothio (SF5) esters

AUTHOR(S): Winter, Rolf; Gard, Gary L.

CORPORATE SOURCE: Portland State Univ., Portland, OR, 97207-0751, USA

SOURCE: Journal of Fluorine Chemistry (1994), 66(2), 109-16

CODEN: JFLCAR; ISSN: 0022-1139

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 121:34777

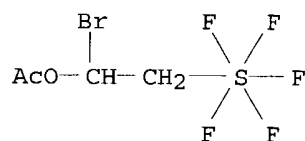
AB The addition of either SF5Br or SF5Cl to a number of unsatd. esters is discussed. The new SF5 esters, SF5CH2CHBr(OAc), SF5CH2CHBrC(O)OEt, SF5CH(C(O)OEt)CHBr(OAc) and SF5CH2CHClCH2OAc, were prepared from vinyl acetate, Et acrylate, β -acetoxyethyl acrylate and allyl acetate, resp. The ester SF5CH2C(O)OMe was prepared by peracid oxidation of the acetal SF5CH2CH(OMe)2. Base treatment of SF5CH2CHClCH2OAc did not give an epoxide but, unexpectedly, produced the novel SF5CH=CHCH2OH. This alc. is the 1st example of an SF5-containing ene-ol.

IT 155990-84-4P 155990-86-6P 155990-87-7P

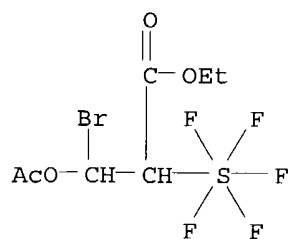
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 155990-84-4 CAPLUS

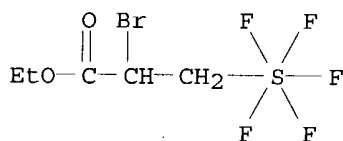
CN Sulfur, [2-(acetyloxy)-2-bromoethyl]pentafluoro-, (OC-6-21)- (9CI) (CA INDEX NAME)



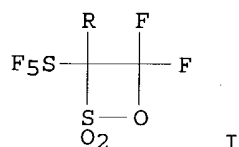
RN 155990-86-6 CAPLUS
 CN Sulfur, [2-(acetyloxy)-2-bromo-1-(ethoxycarbonyl)ethyl]pentafluoro-,
 (OC-6-21) - (9CI) (CA INDEX NAME)



RN 155990-87-7 CAPLUS
 CN Sulfur, (2-bromo-3-ethoxy-3-oxopropyl)pentafluoro-, (OC-6-21) - (9CI) (CA
 INDEX NAME)



L5 ANSWER 7 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1993:38802 CAPLUS
 DOCUMENT NUMBER: 118:38802
 TITLE: Addition of sulfur trioxide to pentafluorothio (SF₅)
 (pentafluoro-λ₆-sulfanyl) containing
 fluoroolefins
 AUTHOR(S): Mohtasham, Javid; Terjeson, Robin J.; Gard, Gary L.;
 Scott, Robert A.; Madappat, Krishnan V.; Thrasher,
 Joseph S.
 CORPORATE SOURCE: Dep. Chem., Portland State Univ., Portland, OR, 97207,
 USA
 SOURCE: Inorganic Syntheses (1992), 29, 33-8
 CODEN: INSYA3; ISSN: 0073-8077
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 118:38802
 GI

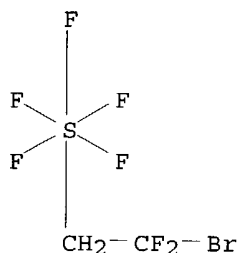


AB CHR:CF₂ (R = H, F) was treated with SF₅Br and the resulting SF₅CHRCF₂Br dehydrobrominated with KOH to give SF₅CR:CF₂, which underwent addition with SO₃ trimer to give oxathietanes I.

IT **18801-67-7P 18801-68-8P**
 RL: RCT (Reactant); SPN (Synthetic preparation); **PREP (Preparation)**; RACT (Reactant or reagent) (preparation and dehydrobromination of)

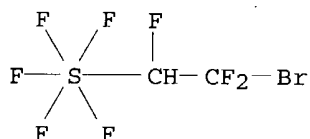
RN 18801-67-7 CAPLUS

CN Sulfur, (2-bromo-2,2-difluoroethyl)pentafluoro-, (OC-6-21)- (9CI) (CA INDEX NAME)



RN 18801-68-8 CAPLUS

CN Sulfur, (2-bromo-1,2,2-trifluoroethyl)pentafluoro-, (OC-6-21)- (9CI) (CA INDEX NAME)



L5 ANSWER 8 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1987:423824 CAPLUS

DOCUMENT NUMBER: 107:23824

TITLE: New pentafluorothio (SF₅) fluoropolymers

AUTHOR(S): Terjeson, Robin J.; Gard, Gary L.

CORPORATE SOURCE: Dep. Chem., Portland State Univ., Portland, OR, 97207, USA

SOURCE: Journal of Fluorine Chemistry (1987), 35(4), 653-62
 CODEN: JFLCAR; ISSN: 0022-1139

DOCUMENT TYPE: Journal

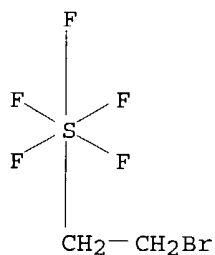
LANGUAGE: English

AB Fluorinated polymers containing the pentafluorothio group were prepared from SF₅Br and the appropriate fluoroolefin under reaction temps. 90 ± 5° and autogenous pressures ≤90 atm for 4 days to 2 wk. With ethylene, FCH₂CH₂Br and SF₅CH₂CH₂Br were formed. A new monomer addition product, SF₅CF₂CF₂Br, was also reported.

IT **109050-54-6P**
 RL: FORM (Formation, nonpreparative); **PREP (Preparation)** (formation of, in attempted polymerization of ethylene with pentafluorothiobromide)

RN 109050-54-6 CAPLUS

CN Sulfur, (2-bromoethyl)pentafluoro-, (OC-6-21)- (9CI) (CA INDEX NAME)

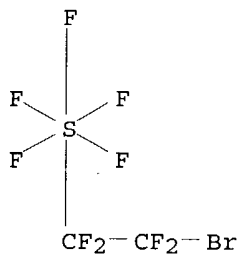


IT 109050-53-5P

RL: FORM (Formation, nonpreparative); **PREP (Preparation)**
 (formation of, in polymerization of tetrafluoroethylene with
 pentafluorothiobromide)

RN 109050-53-5 CAPLUS

CN Sulfur, (2-bromo-1,1,2,2-tetrafluoroethyl)pentafluoro-, (OC-6-21)- (9CI)
 (CA INDEX NAME)

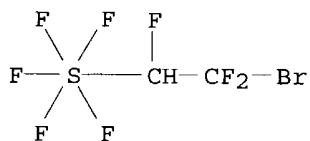


IT 18801-68-8P

RL: FORM (Formation, nonpreparative); **PREP (Preparation)**
 (formation of, in polymerization of trifluoroethylene with
 pentafluorothiobromide)

RN 18801-68-8 CAPLUS

CN Sulfur, (2-bromo-1,2,2-trifluoroethyl)pentafluoro-, (OC-6-21)- (9CI) (CA
 INDEX NAME)

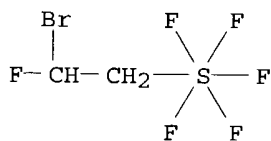


IT 18801-66-6P

RL: FORM (Formation, nonpreparative); **PREP (Preparation)**
 (formation of, in polymerization of vinyl fluoride with
 pentafluorothiobromide)

RN 18801-66-6 CAPLUS

CN Sulfur, (2-bromo-2-fluoroethyl)pentafluoro-, (OC-6-21)- (9CI) (CA INDEX
 NAME)

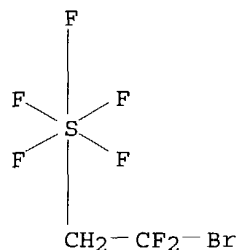


IT 18801-67-7P

RL: FORM (Formation, nonpreparative); **PREP (Preparation)**
(formation of, in polymerization of vinylidene fluoride with
pentafluorothiobromide)

RN 18801-67-7 CAPLUS

CN Sulfur, (2-bromo-2,2-difluoroethyl)pentafluoro-, (OC-6-21)- (9CI) (CA
INDEX NAME)



L5 ANSWER 9 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1985:560074 CAPLUS

DOCUMENT NUMBER: 103:160074

TITLE: Synthesis and spectroscopic properties of
ethynylsulfur pentafluoride (SF₅C.tplbond.CH)

AUTHOR(S): Canich, JoAnn M.; Ludvig, Maria M.; Gard, Gary L.;
Shreeve, Jean'ne M.

CORPORATE SOURCE: Dep. Chem., Portland State Univ., Portland, OR, 97207,
USA

SOURCE: Inorganic Chemistry (1985), 24(22), 3668-70
CODEN: INOCAJ; ISSN: 0020-1669

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 103:160074

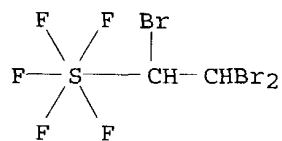
AB SF₅C.tplbond.CH (I) was prepared by dehydrobromination of SF₅CH:CHBr (49%).
I was also obtained by a four-step process involving (1) addition of SF₅Br to
acetylene, (2) bromination of SF₅CH:CHBr, (3) dehydrobromination of
SF₅CHBrCHBr with K₂CO₃ and (4) treatment of SF₅CBr:CHBr with Zn to afford
I in an overall yield of 22%.

IT 87224-28-0P

RL: SPN (Synthetic preparation); **PREP (Preparation)**
(preparation, spectra, and dehydrobromination of)

RN 87224-28-0 CAPLUS

CN Sulfur, pentafluoro(1,2,2-tribromoethyl)-, (OC-6-21)- (9CI) (CA INDEX
NAME)

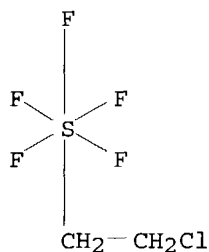


> s 18/prep

8 L8
3155998 PREP/RL
L9 3 L8/PREP
(L8 (L) PREP/RL)

=> d ibib abs hitstr 1-3

L9 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1983:575181 CAPLUS
DOCUMENT NUMBER: 99:175181
TITLE: Sulfuranonium ions, RSF4+, preparation, detection, and stability
AUTHOR(S): Wessel, Juergen; Kleemann, Gert; Seppelt, Konrad
CORPORATE SOURCE: Inst. Anorg. Anal. Chem., Freie Univ. Berlin, Berlin, D-1000, Fed. Rep. Ger.
SOURCE: Chemische Berichte (1983), 116(7), 2399-407
CODEN: CHBEAM; ISSN: 0009-2940
DOCUMENT TYPE: Journal
LANGUAGE: German
AB RSF4+ (R = Me, Et, vinyl, MeCH:CH, H2C:CClCH2, HC.tplbond.C) were generated from RSF5 by F- extraction with SF5. None of the ions is stable at room temperature; they were identified by NMR. Formation and decomposition are strongly influenced by R.
IT 762-56-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and dehydrochlorination of)
RN 762-56-1 CAPLUS
CN Sulfur, (2-chloroethyl)pentafluoro-, (OC-6-21)- (9CI) (CA INDEX NAME)

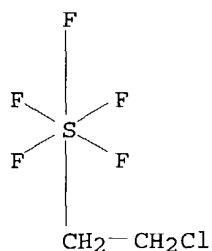


L9 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1977:533804 CAPLUS
DOCUMENT NUMBER: 87:133804
TITLE: A new method for the preparation of δ -alkoxy- α,β -unsaturated aldehydes and polyenals
AUTHOR(S): Ishida, Akihiko; Mukaiyama, Teruaki
CORPORATE SOURCE: Fac. Sci., Univ. Tokyo, Tokyo, Japan
SOURCE: Bulletin of the Chemical Society of Japan (1977), 50(5), 1161-8
CODEN: BCSJA8; ISSN: 0009-2673
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 87:133804
AB The condensation of RCH(OR1)2 (R = PhCH2CH2, Ph, PhCH:CH, MeCH:CH, Pr, 1-pentyl; R1 = Me, Et) with R2CH:CR3CH:CHOSiMe3 (R2 = H, Et; R3 = H, Me), and TiCl4 catalyst, gave thirteen RCH(OR1)CHR2CR3:CHCHO (I). Some RCH:CR2CR3:CHCHO were obtained by the elimination reaction of I.
IT 762-56-1P
RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

RN 762-56-1 CAPLUS

CN Sulfur, (2-chloroethyl)pentafluoro-, (OC-6-21)- (9CI) (CA INDEX NAME)



L9 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1969:486545 CAPLUS

DOCUMENT NUMBER: 71:86545

TITLE: Free radical addition to olefins. IV. The light-induced addition of sulfur chloride pentafluoride to ethylene

AUTHOR(S): Sidebottom, H. W.; Tedder, John M.; Walton, J. C.

CORPORATE SOURCE: Univ. Dundee, Dundee, UK

SOURCE: Transactions of the Faraday Society (1969), 65(8), 2103-9

CODEN: TFSOA4; ISSN: 0014-7672

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The light-induced addition of SF₅Cl to ethylene (E) has been studied in a series of gas-phase expts. in which concentration, relative light intensity, and

temperature have been varied. The results can be rationalized by the following chain mechanism in which the addition step (2) is appreciably reversible in the temperature range studied: SF₅Cl + hv → SF₅• + Cl• (1); SF₅• + E → SF₅E• (2); SF₅E• + SF₅Cl → SF₅EC1 + SF₅• (3); Cl• + E → EC1• (4); EC1• + SF₅Cl → EC1₂ + SF₅• (5); SF₅• + SF₅• → S₂F₁₀ (6). From a series of expts. in which both pressure and temperature were varied, the following rate expressions were obtained. k₂/k₆^{1/2} = (3.9 ± 0.6) exp(-1,900 ± 200/RT) l.^{1/2} mole^{-1/2} sec.^{-1/2}, k₋₂/k₃ = (118 ± 20) exp(-6,660 ± 300/RT) l.⁻¹ mole.

IT 762-56-1P

RL: FORM (Formation, nonpreparative); PREP (Preparation) (formation of, in photochem. addition reaction of sulfur chloride fluoride with ethylene)

RN 762-56-1 CAPLUS

CN Sulfur, (2-chloroethyl)pentafluoro-, (OC-6-21)- (9CI) (CA INDEX NAME)

